



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

002841

MEMORANDUM

DATE: June 7, 1982

SUBJECT: EPA Registration Number: 1022-492
PQ-20

FROM: Deloris F. Graham 6/9/82
FHB/TSS E 6/10/82

TO: Henry Jacoby
Product Manager (12)

Applicant: Chapman Chemical Company
P.O. Box 9158
Memphis, TN 38109

Active Ingredient

Copper 8-quinolinolate.....3.75%

Inert Ingredients.....96.25%

Background: Submitted Eye Irritation Study to support change in signal from CAUTION to WARNING or DANGER whichever is appropriate. Study conducted by Cannon Laboratories, Inc. Date under Accession Number 247425.

Recommendation:

- (1) FHB/TSS finds this data acceptable to support the conditional registration of this product.
- (2) Based on the Eye Irritation study, the appropriate signal word is "DANGER."

Label:

- (1) Labeling submitted is acceptable. No additional labeling requested.

Review:

- (1) Eye Irritation Study: Cannon Laboratories, Inc.; Laboratory Number: 9E-6956; December 11, 1979.

Procedure: Nine New Zealand rabbits received 0.1 m. of the test material in one eye each. The treated eyes of three of the rabbits were washed. Observations made at 24, 48 and 72 hours, 4, 7, 10 and 13 days.

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Results: At 24 hours, 6/6 of the unwashed group and 3/3 animals of the washed group had corneal opacity (6/6 = 20), (1/3 = 15, 2/3 = 20); 6/6 and 3/3 iris irritation (6/6 = 5) (3/3 = 5); 6/6 and 3/3 conjunctive redness (6/6 = 3) (3/3 = 3), chemosis (4/6 = 3, 2/6 = 4) (1/3 = 2, 2/3 = 3), and discharge (6/6 = 3) (2/3 = 2, 1/3 = 3).

At 4 days, 6/6 and 2/3 corneal opacity (5/6 = 20, 1/6 = 60) (2/3 = 15, 1/3 = 20); 6/6 and 3/3 conjunctive redness (6/6 = 3) (2/3 = 1, 1/3 = 3) chemosis (4/6 = 3, 2/6 = 4) (1/3 = 2, 2/3 = 3), discharge (2/6 = 1, 2/6 = 2, 2/6 = 3) (3/3 = 1). Unable to score iris irritation due to severe opacity in 6/6 of unwashed group and no iris irritation in 3/3 washed group.

At 7 days, 6/6 and 2/3 corneal opacity (2/6 = 10, 3/6 = 40, 1/6 = 60) (1/3 = 5, 1/3 = 15); 6/6 and 3/3 conjunctive redness (1/6 = 1, 1/6 = 2, 4/6 = 3) (3/3 = 1), chemosis (2/6 = 2, 3/6 = 3, 1/6 = 4), discharge (3/6 = 1, 2/6 = 2, 1/6 = 3).

At 13 days, 5/6 corneal opacity (1/6 = 10, 1/6 = 15, 2/6 = 40, 1/6 = 80); 4/6 conjunctive redness (1/6 = 1, 1/6 = 2, 2/6 = 3), chemosis (1/6 = 1, 3/6 = 2), discharge (2/6 = 1, 1/6 = 2).

Study Classification: Core Guideline Data

Toxicity Category: I - DANGER.

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Copper 8-quinolinolate Reviews

Page 3 is not included in this copy.

Pages _____ through _____ are not included in this copy.

The material not included contains the following type of information:

- ___ Identity of product inert ingredients
 - ___ Identity of product impurities
 - ___ Description of the product manufacturing process
 - ___ Description of product quality control procedures
 - ___ Identity of the source of product ingredients
 - ___ Sales or other commercial/financial information
 - x A draft product label
 - ___ The product confidential statement of formula
 - ___ Information about a pending registration action
 - ___ FIFRA registration data
 - ___ The document is a duplicate of page(s) _____
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